

In re: Houslay et al.  
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Page 2

contiguous over-lapping arrangement is carried out by using a computer program designed for such an application.

a<sup>2</sup>  
cont  
9. (Amended) The method according to [any proceeding] claim 1 wherein reading of said nucleotide sequence from said contiguous arrangement is carried out by or with the assistance of a computer.

10. (Amended) The method according to [any one of claims 1 to 8] claim 1 for use in conducting restriction mapping of a polynucleotide.

11. (Amended) A computer program for use with the method according to [any preceeding] claim 1 wherein the computer program serves to pair the matching ends of the sequenced fragments and order the fragments into a contiguous overlapping arrangement.

a<sup>3</sup>  
13. (Amended) An semi-automated or fully automated sequencing apparatus with a dedicated computer comprising the computer program according to [either of claims 11 or] claim 12.

14. (Amended) A kit suitable for use with the method according to [any one of claims 1 to 10] claim 1 wherein the kit comprises at least one of said restriction enzymes and a DNA polymerase(s) for the filling-in and/or sequencing reactions.

a<sup>4</sup>  
18. (Amended) A kit according to [any one of claims 14 to 17] claim 17 further comprising a computer program [according to either of claims 11 or 12] in machine readable form.